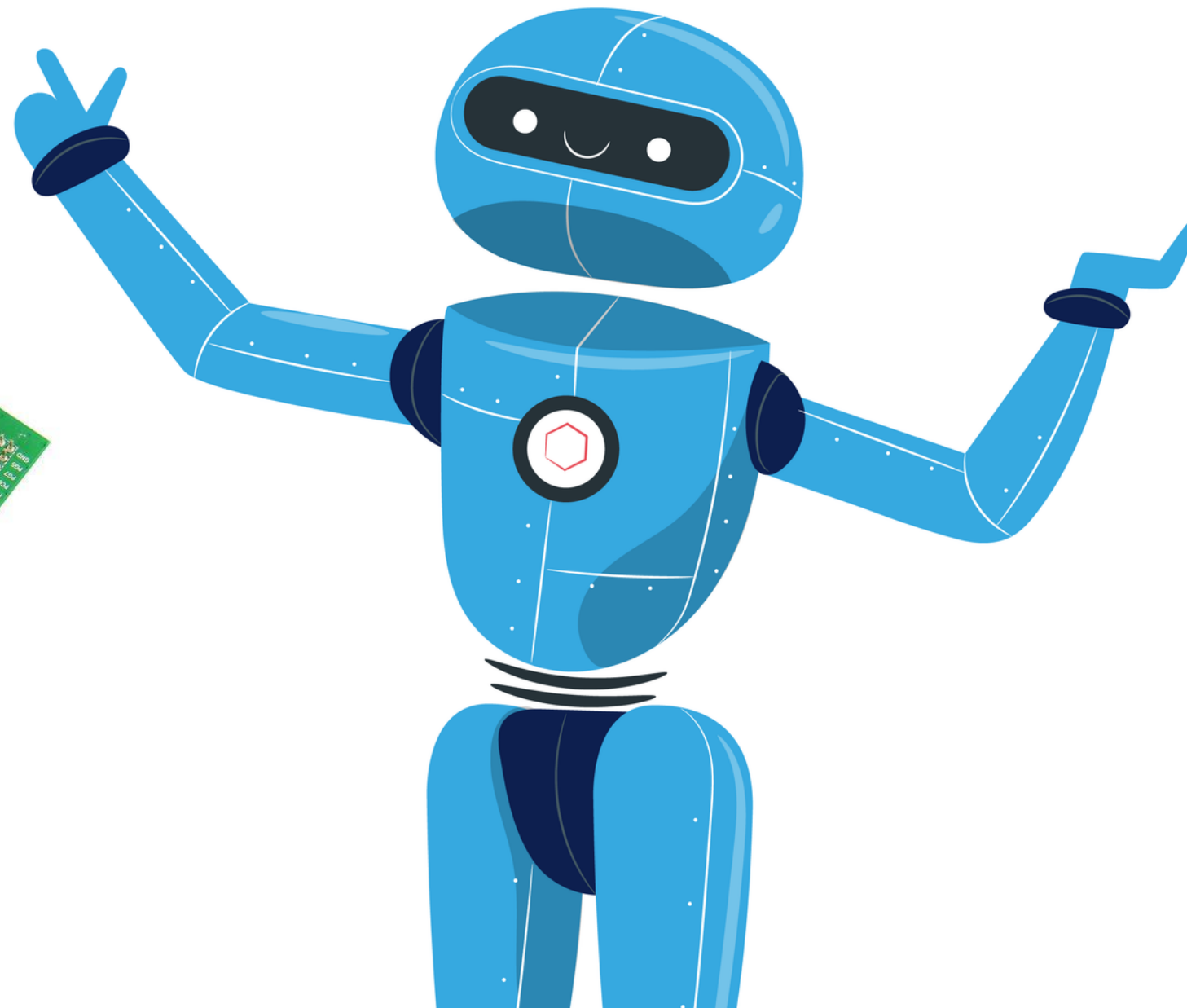
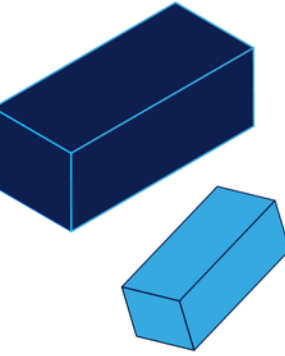


ENTORNOS DE DESARROLLO PARA LA TIVA C Y LA DEPURACION

MICROCONTROLADORES ARM



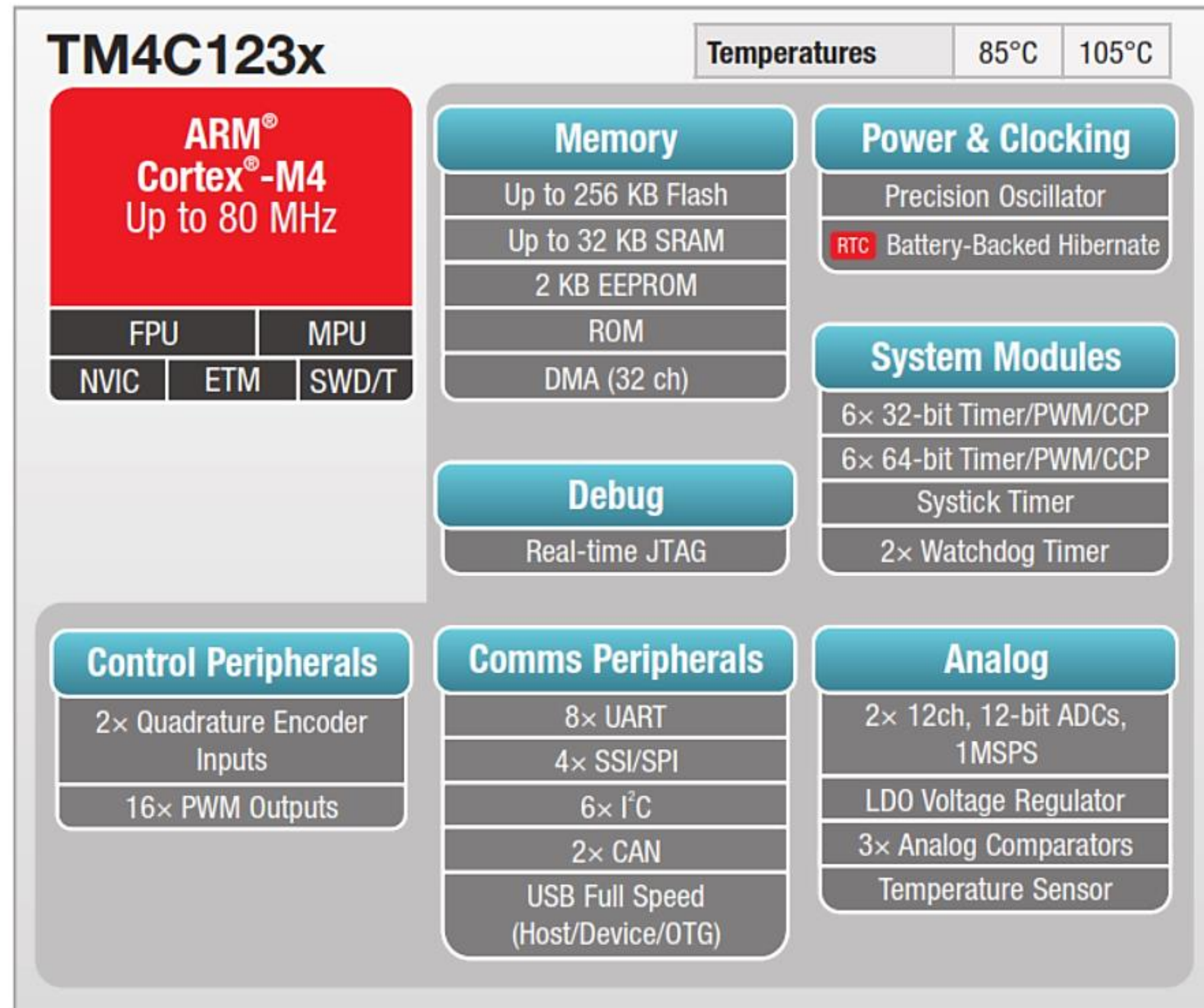


TIVA C SERIES

arm

MICRO-
CONTRO-
LADORES
ARM

TIVA C SERIES



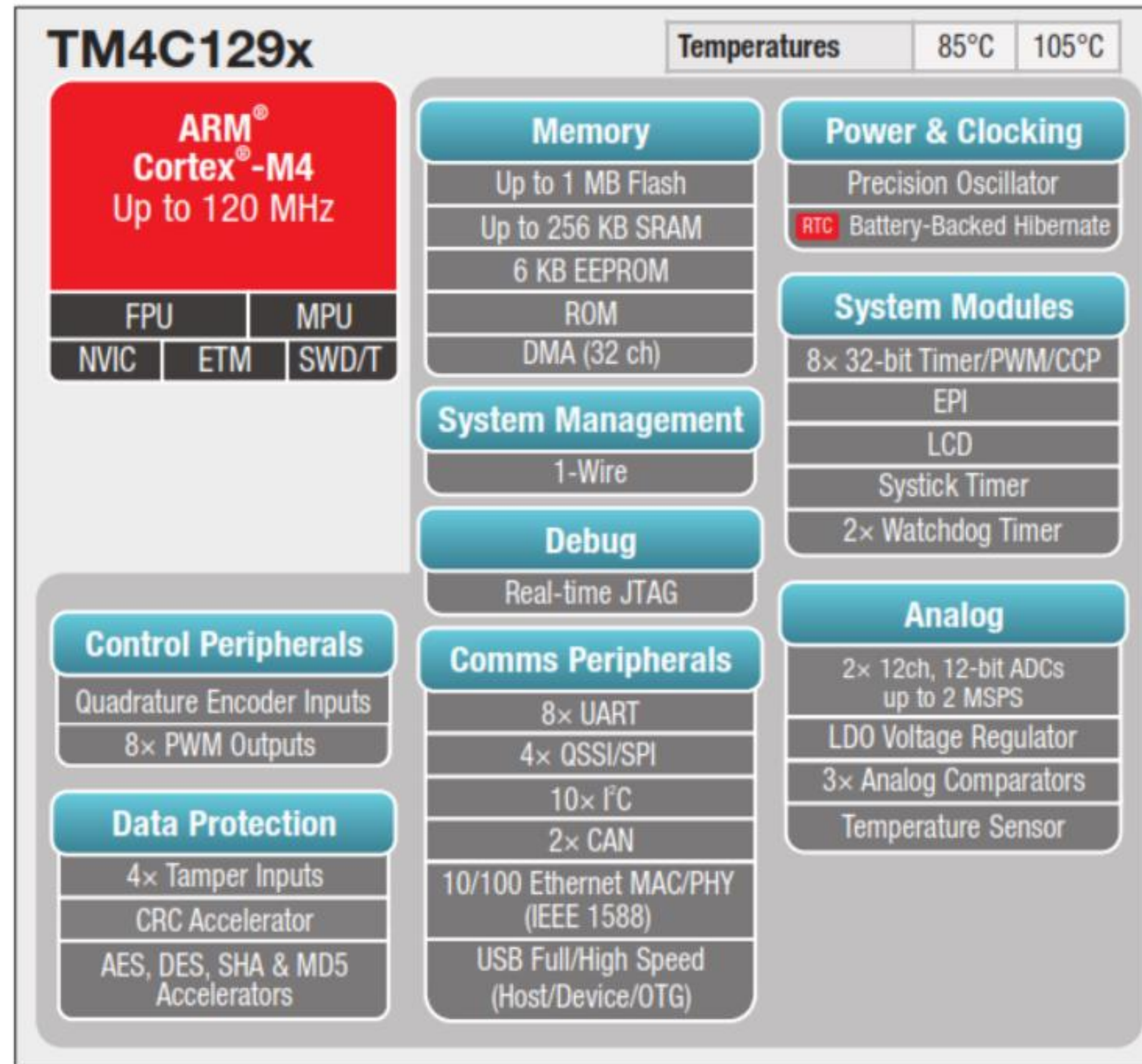
APLICACIONES

- Conectividad
- Agregación de sensores
- Seguridad y control de acceso Automatización de viviendas y edificios
- Automatización industrial
- Interfaz hombre-máquina
- Control de iluminación
- Energía
- Adquisición de datos
- Gestión del sistema

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APLICACIONES

- Inversores solares
- Sensores industriales
- Automatización industrial
- Sistemas de acceso de seguridad
- Adaptadores de comunicaciones de motores industriales/concentradores
- Contadores industriales en red/controladores
- Paneles de control HMI industriales/muestra
- Sistemas residenciales.
- Máquinas expendedoras

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TIVA C SERIES Kits

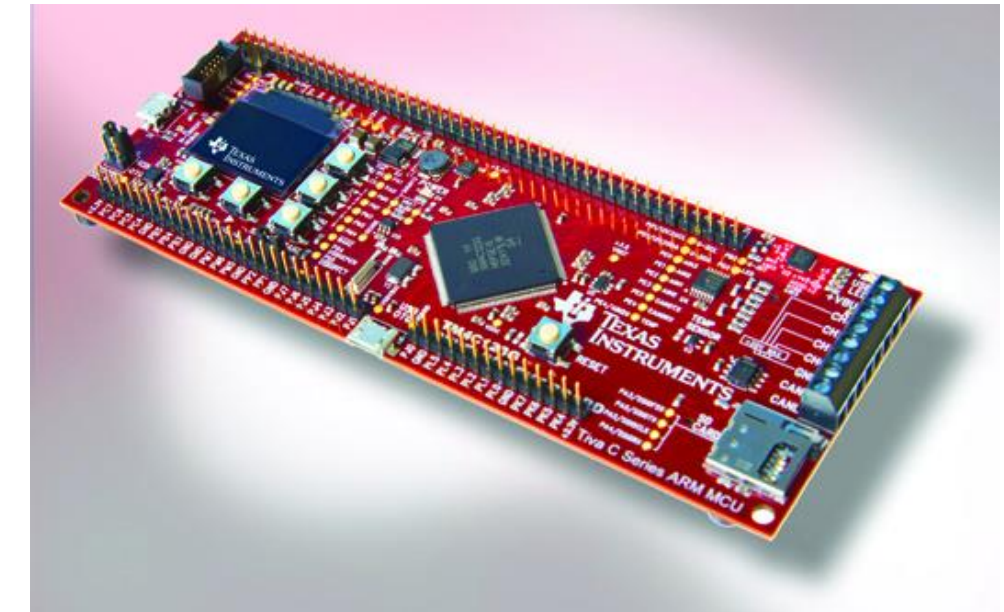
TM4C123GXL LaunchPad



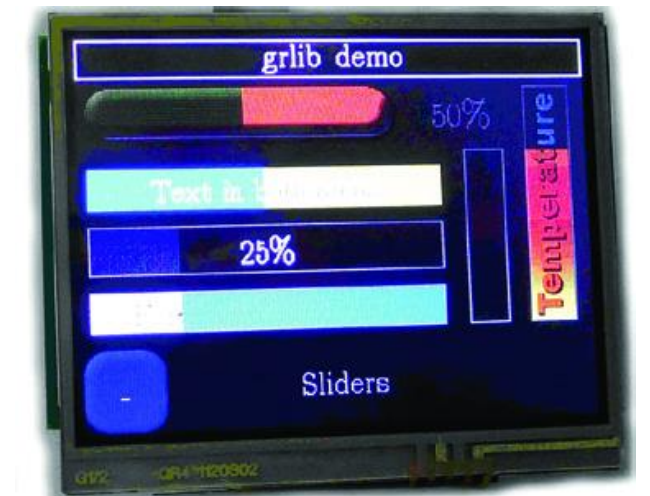
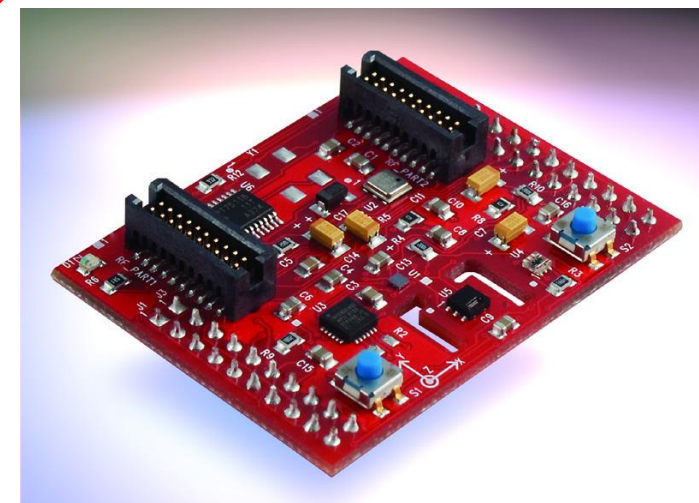
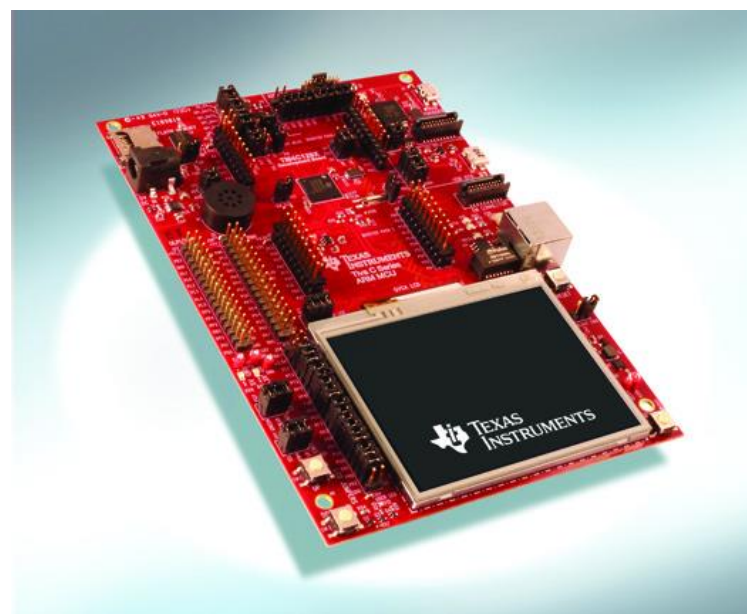
EK-TM4C1294XL Connected
LaunchPad



TM4C123G Development Kit



TM4C129x Connected
Development Kit



BoosterPacks

arm

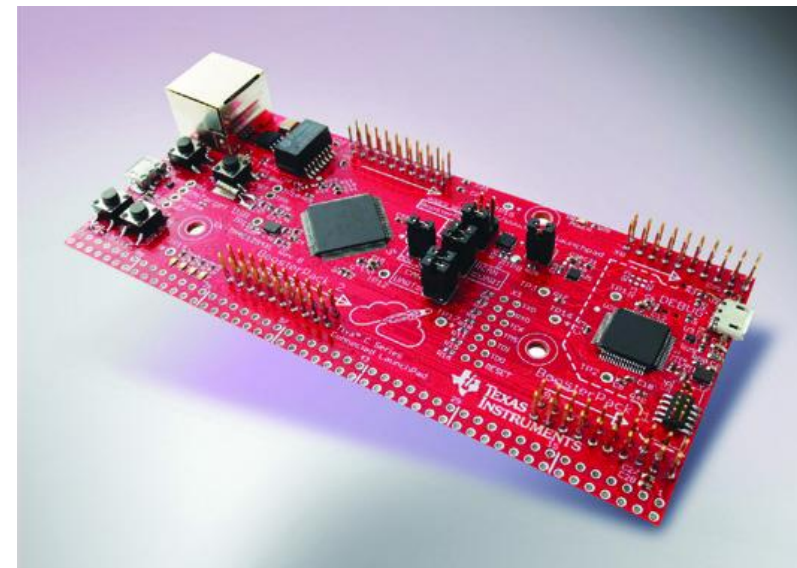
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TIVA C SERIES Kits

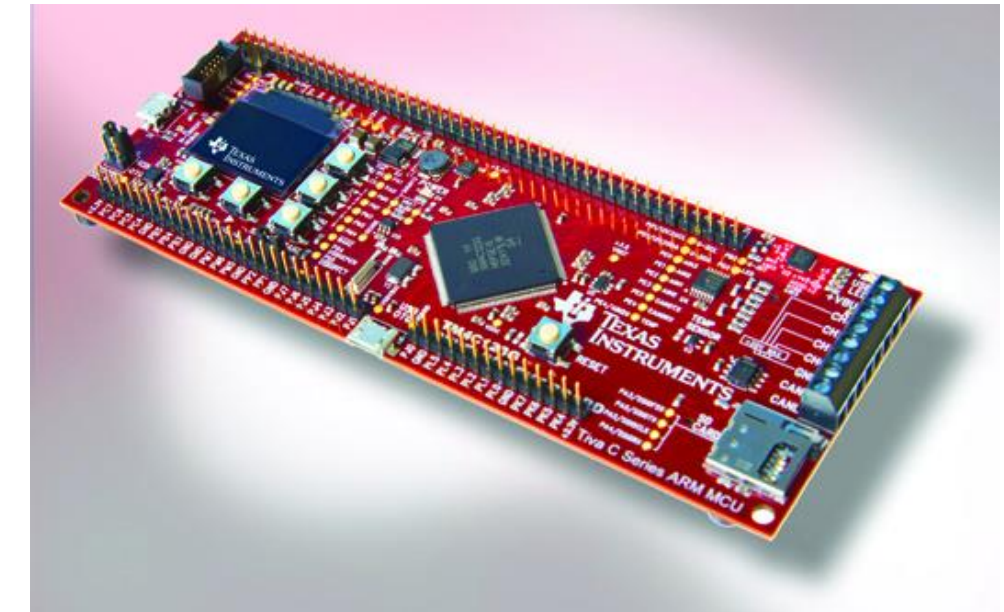
TM4C123GXL LaunchPad



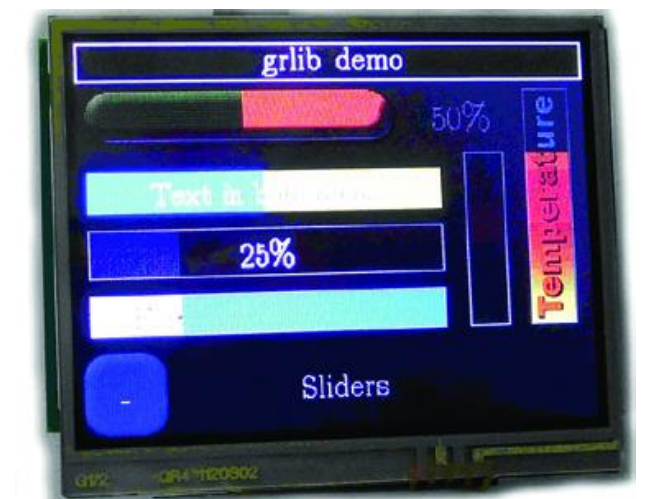
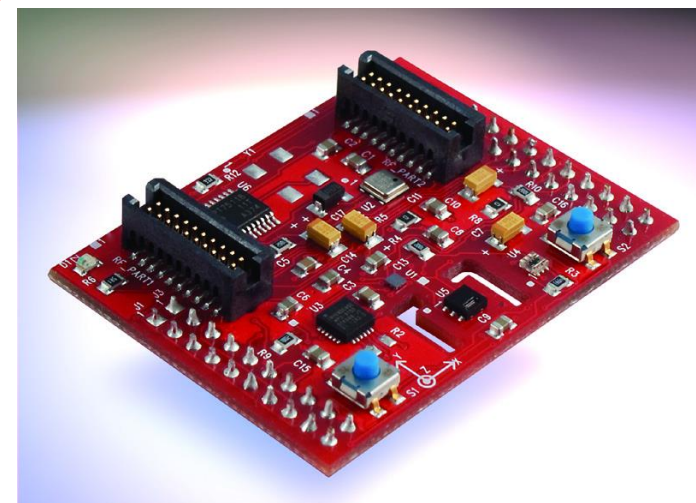
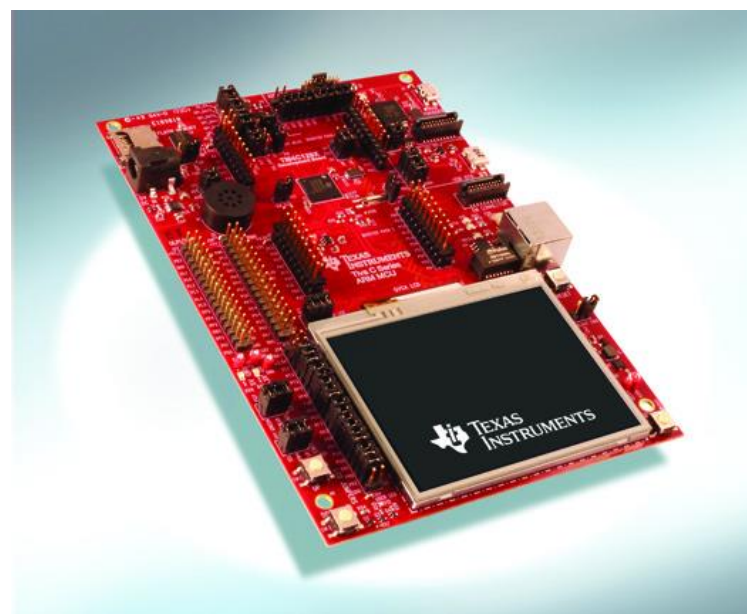
EK-TM4C1294XL Connected
LaunchPad



TM4C123G Development Kit



TM4C129x Connected
Development Kit



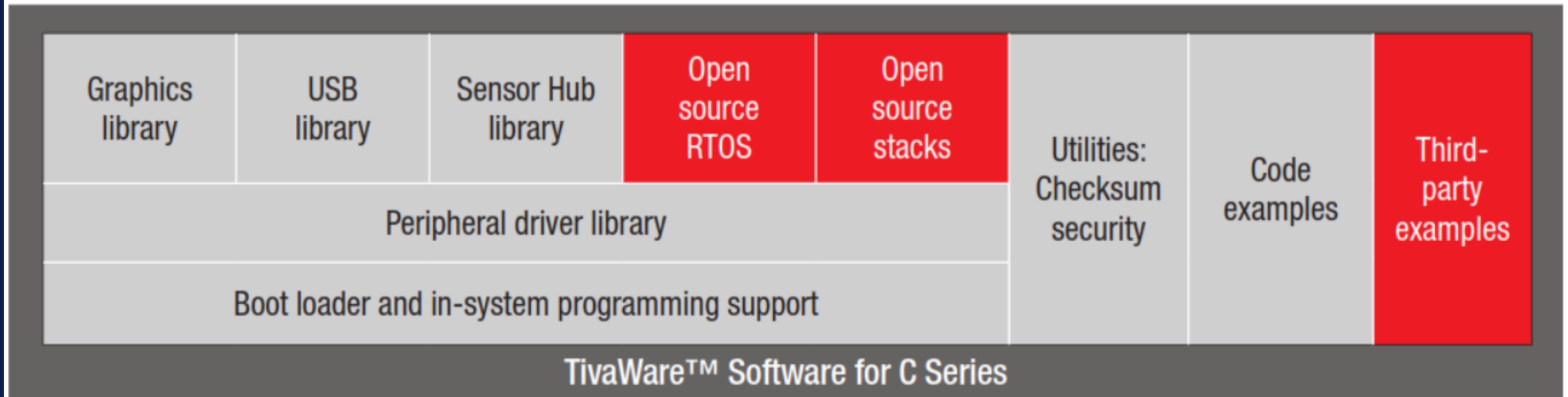
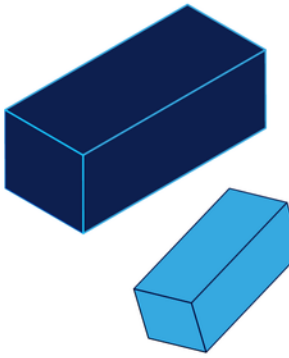
BoosterPacks

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TIVA C SERIES

TivaWare Software for C Series



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TIVA C SERIES

Librerías



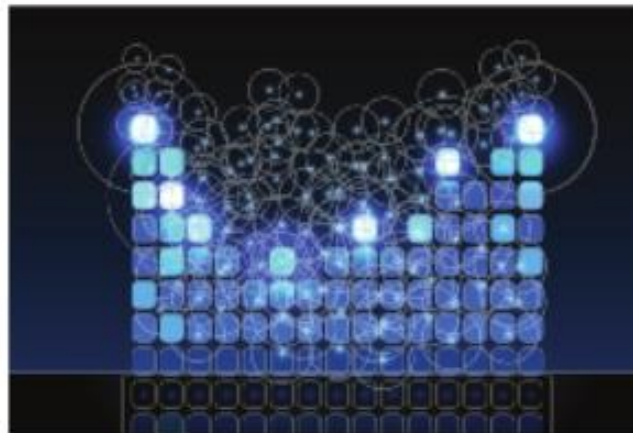
Peripheral driver library

Set of BSD licensed functions for controlling TM4C peripherals.



USB library

TivaWare royalty-free USB stack is provided to enable efficient USB host, device, and on-the-go operations.



Graphics library

Royalty-free set of graphics primitives and widgets to create GUIs.



Sensor Hub library

TM4C Sensor Hub library offers an advanced sensor fusion algorithm and a broad range of sensor support.



CMSIS DSP library

Full support for ARM®'s Cortex® Microcontroller Software Interface Standard (CMSIS) libraries.

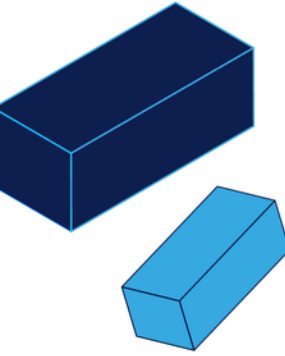


Ethernet

Integrated Ethernet MAC+PHY with support with lwIP, MuIP and TI's Networking Development Kit (NDK).

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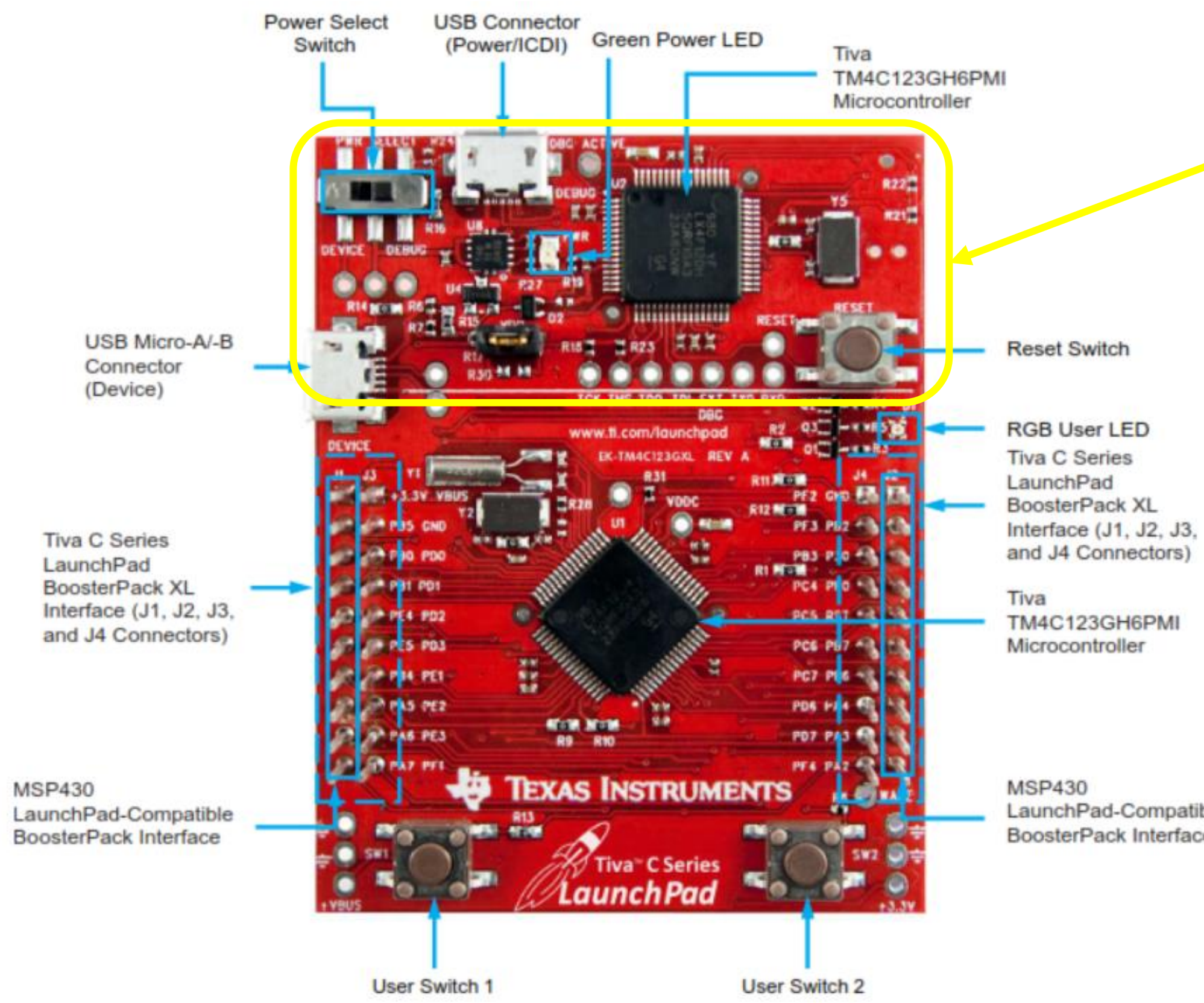


DEPURACION

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Tiva C Series TM4C123G LaunchPad Evaluation Board



In-Circuit Debug Interface (ICDI)

Solo admite depuración JTAG

GPIO Pin	Pin Function
PC0	TCK/SWCLK
PC1	TMS/SWDIO
PC2	TDI
PC3	TDO/SWO

Virtual COM Port

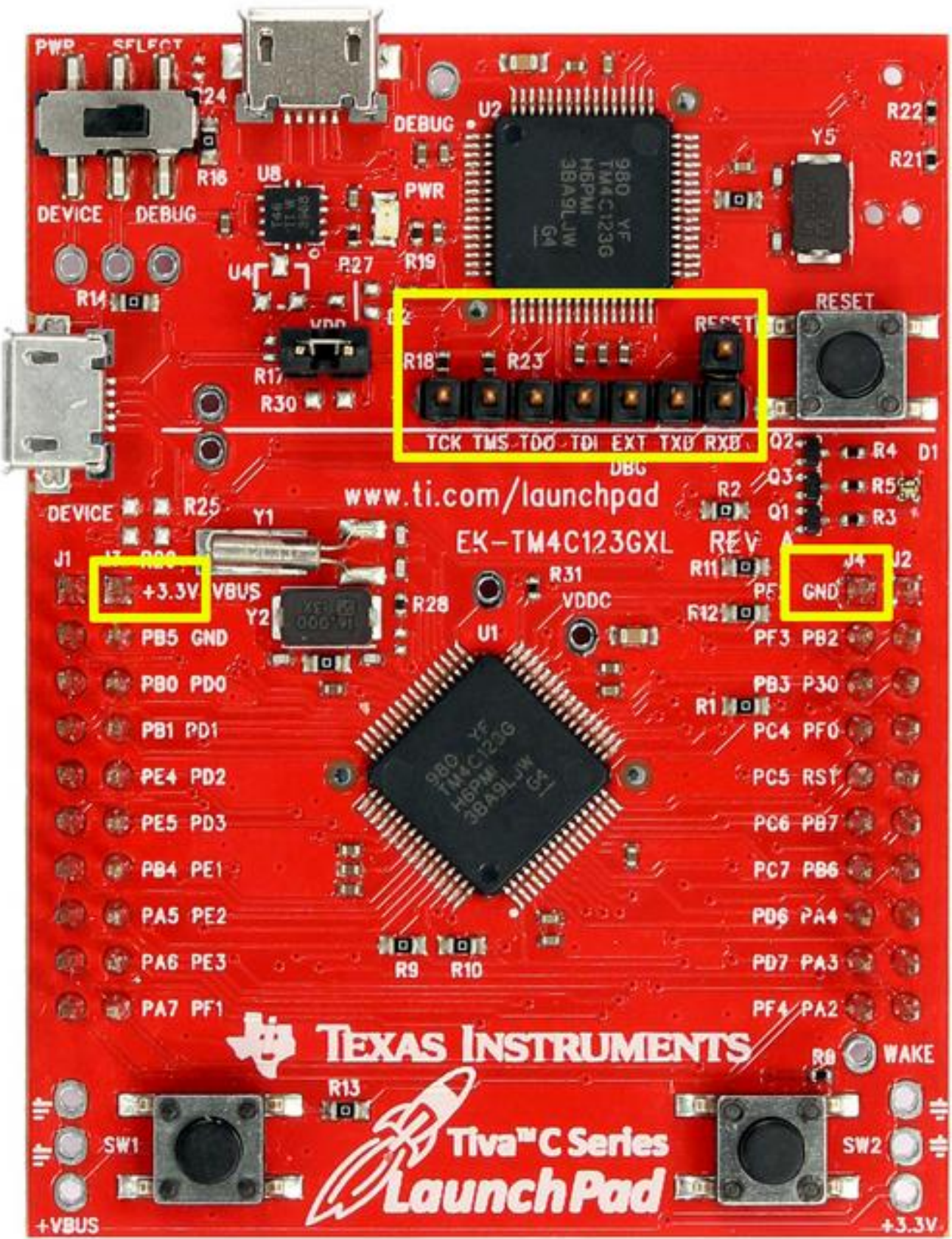
GPIO Pin	Pin Function
PA0	U0RX
PA1	U0TX

ar

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Tiva C Series TM4C123G LaunchPad Evaluation Board

DEPURADOR EXTERNO



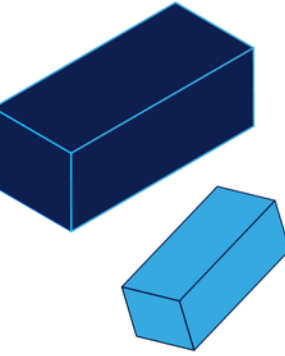
TM4C123G LaunchPad	J-Link
TCK	Pin 9 (SWCLK / TCK)
TMS	Pin 7 (SWDIO / TMS)
TDO	Pin 13 (SWO / TDO)
TDI	Pin 5 (TDI)
RESET	Pin 15 (nRST)
3.3V	Pin 1 (VTref)
GND	Pin 4 (GND)

J-Link EDU Mini



VTref	1 ● ● 2	SWDIO/TMS
GND	3 ● ● 4	SWCLK/TCK
GND	5 ● ● 6	SWO/TDO
---	7 ● 8	TDI
NC	9 ● ● 10	nRESET

EXT DBG -----> **GND** (tire de este pin hacia abajo para tri-estado de las señales de la unidad ICDI incorporadas. Esto evita que ICDI interfiera con una conexión de depuración externa).



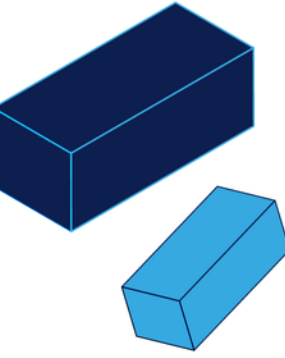
IDE

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IDE

El software TivaWare para la serie C está pre-compilado con cinco compiladores diferentes:



Code Composer Studio™ (CCStudio) es un entorno de desarrollo integrado (IDE) para todas las familias de procesadores integrados de Texas Instruments.



GNU



mentor
embedded



arm

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UMAKER | CENTRO DE CAPACITACIÓN
DE DESARROLLO TECNOLÓGICO